

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/050912

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 E21B10/36 E21B10/38

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 253 864 B1 (HALL DAVID R) 3 July 2001 (2001-07-03) cited in the application the whole document ---	1
A	US 5 025 875 A (WITT LEWIS) 25 June 1991 (1991-06-25) figure 1 ---	1
A	US 6 290 002 B1 (FEHR JAMES ET AL) 18 September 2001 (2001-09-18) column 4, line 54 -column 5, line 59 ---	1
A	EP 0 563 561 A (BOART HWF GMBH CO KG) 6 October 1993 (1993-10-06) figure 1 ---	1
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
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T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

& document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
30 August 2004	07/09/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016	Authorized officer Morrish, S

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 03/042492 A (MOIR FREDRIC GRAHAM ; TERLET CHRISTOPHER JOHN (AU); DEBARRO ANTHONY) 22 May 2003 (2003-05-22) figure 5 -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 6253864	B1	03-07-2001	NONE			
US 5025875	A	25-06-1991	AU AU CA ZA	630292 B2 7605991 A 2041254 A1 9103237 A		22-10-1992 07-11-1991 08-11-1991 29-04-1992
US 6290002	B1	18-09-2001	CA	2260612 A1		03-08-2000
EP 0563561	A	06-10-1993	DE DE EP JP	4211048 C1 59306230 D1 0563561 A1 6010582 A		06-05-1993 28-05-1997 06-10-1993 18-01-1994
WO 03042492	A	22-05-2003	WO CA	03042492 A1 2466939 A1		22-05-2003 22-05-2003